Status of new and renewable energy production in the OSCE area

21st OSCE Economic and Environmental Forum; April, 2013

Hugo Lucas
Director Knowledge, Policy and Finance Centre
International Renewable Energy Agency (IRENA)

RE Targets drive deployment

OSCE Europe
2020 Target for Final Energy Consumption (FEC)

Other Targets for Electricity Generation in OSCE Europe

<table>
<thead>
<tr>
<th>Country</th>
<th>RE Share (2010)</th>
<th>RE Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>Russia</td>
<td>0.3%</td>
<td>4.5% by 2020 - excluding hydro</td>
</tr>
<tr>
<td>Turkey</td>
<td>26%</td>
<td>30% by 2023 - including hydro</td>
</tr>
</tbody>
</table>

Iceland
Norway
Sweden
Austria
Bosnia
Latvia
Albania
Finland
Denmark
Portugal
Macedonia (FYR)
France
Serbia
Estonia
Kosovo
Slovenia
Romania
Lithuania
Spain
Croatia
Greece
Germany
Italy
Moldova
Bulgaria
Ireland
Poland
United Kingdom
Netherlands
Slovakia
Czech Republic
Belgium
Cyprus
Hungary
Luxembourg
Ukraine
Malta

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ENGLISH only
RE Generation in OSCE Europe

Electricity Generation from Renewables - Europe 2010 (% of RE in national electricity mix is in brackets)

Electricity Generation by Fuel - Europe (2010)

Reduction of Support in EU

- Reduction in FIT support (e.g. Germany, Denmark etc.)
- Taxation of RE generation (e.g. Spain, Greece and Czech Republic)
- Move towards net-metering (e.g. Italy, France, UK etc.)

Degression of feed-in tariffs in Germany, Spain and the UK for PV (50–100kW)

Source: Bloomberg New Energy Finance.
How long will the world’s oil reserves last?

“The Stone Age didn’t end for lack of stone, and the oil age will end long before the world runs out of oil.”

How much will oil cost in 2020? Spain Easter Time

How old is your TV and your computer, car, your mobile?

**RE Electricity Projects in Europe**

“all new installed capacity in March in US was solar”

Sources: IEA, I4A, Bloomberg New Energy Finance
Developments in Middle East

UAE
- SHAMS 1, 100 MW CSP
- 10 MW PV in Masdar City
- 1 GW PV in Dubai by 2030

Auctions begin in 2013 in Saudi Arabia for 54 GW

RE Targets in GCC

<table>
<thead>
<tr>
<th>Country</th>
<th>Target Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bahrain</td>
<td>5% of electricity capacity by 2020</td>
</tr>
<tr>
<td>Kuwait</td>
<td>10% of electricity capacity by 2020</td>
</tr>
<tr>
<td>Qatar</td>
<td>2% of electricity capacity by 2020</td>
</tr>
<tr>
<td>Saudi Arabia</td>
<td>54 GW of electricity capacity by 2032</td>
</tr>
<tr>
<td>UAE</td>
<td>7% of electricity capacity in Abu Dhabi by 2020</td>
</tr>
<tr>
<td></td>
<td>5% of electricity capacity in Dubai by 2030</td>
</tr>
</tbody>
</table>

Announced Targets
Thank you

www.irena.org
secretariat@irena.org;
info@irena.org